

GenCore version 5.1.13  
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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: January 16, 2003, 17:06:17, Search time: 4.426k Seconds  
(without alignments)  
114.746 Million cell updates/sec

Title: US-09-856-070-26  
Perfect score: 28  
Sequence: 1 QDPRF 5

Scoring table:  
Xgapop 10.0, Xgapext 0.5  
Ygapop 10.0, Ygapext 0.5  
Zgapop 6.0, Zgapext 7.0  
logop 6.0, logext 7.0

Searched: 39,868 seqs, 222934149 residues  
Total number of hits satisfying chosen parameters: 787736

Minimum DB seq length: 0  
Maximum DB seq length: 20000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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-Q/cqn2\_1/ptdata/seqs/seqs070/pubna/14012003/155845/1641/app\_query fasta\_1.1592  
-DB-published Applications\_NA -CFMT-fastap -SUFFIX-rnpb -MINMATCH-0.1  
-LOOPEL-0 -LCQPEL-0 -UNLIS-bits -SLANT-1 -ENO-1 -MAKIX-DOSMB2  
-TRANS-human40 codi -FISU-45 -LOCALIGN-200 -THR-SCORE-pct-THR-MAX-100  
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-DRV-TIMEOUT-120 -WARN-TIMEOUT-30 -THREDS-1 -XGAPOP-10 -XGAPEXT-0.5 -FGAPOP-6  
-FGAPEX-7 -YGAPOP-10 -YGAPEX-0.5 -DELOP-6 -DELEX-7

Database: Published Applications\_NA:

- 1: /cqn2\_6/ptdata/2/pubna/US07\_PUBCOMB.seq:
- 2: /cqn2\_5/ptdata/2/pubna/PT\_NEW\_PUB.seq:
- 3: /cqn2\_6/ptdata/2/pubna/US06\_NEW\_PUB.seq:
- 4: /cqn2\_6/ptdata/2/pubna/US07\_PUBCOMB.seq:
- 5: /cqn2\_6/ptdata/2/pubna/US07\_NEW\_PUB.seq:
- 6: /cqn2\_6/ptdata/2/pubna/PTUS\_PUBCOMB.seq:
- 7: /cqn2\_6/ptdata/2/pubna/US08\_NEW\_PUB.seq:
- 8: /cqn2\_6/ptdata/2/pubna/US08\_PUBCOMB.seq:
- 9: /cqn2\_6/ptdata/2/pubna/US09\_NEW\_PUB.seq:
- 10: /cqn2\_6/ptdata/2/pubna/US09\_PUBCOMB.seq:
- 11: /cqn2\_6/ptdata/2/pubna/US10\_NEW\_PUB.seq:
- 12: /cqn2\_6/ptdata/2/pubna/US10\_PUBCOMB.seq:
- 13: /cqn2\_6/ptdata/2/pubna/US06\_NEW\_PUB.seq:
- 14: /cqn2\_6/ptdata/2/pubna/US06\_PUBCOMB.seq:

pred. No. is the number of results predicted by database  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

# SUMMARIES

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C 4	28	100.0	162	9	US-09-856-070-26-34	Sequence 2237, A

C 5	28	100.0	401	9	US-09-856-070-26-34	Sequence 1174, Ap
C 6	28	100.0	401	10	US-09-856-070-26-34	Sequence 1174, Ap
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C 16	28	100.0	639	10	US-09-856-070-26-34	Sequence 1174, Ap
C 17	28	100.0	639	10	US-09-856-070-26-34	Sequence 1174, Ap
C 18	28	100.0	647	9	US-10-176-758-539	Sequence 539, App
C 19	28	100.0	647	10	US-10-176-758-539	Sequence 539, App
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C 21	28	100.0	656	9	US-09-754-853A-5	Sequence 5, Appl
C 22	28	100.0	656	9	US-09-754-853A-5	Sequence 36, Appl
C 23	28	100.0	656	9	US-09-754-853A-5	Sequence 37, Appl
C 24	28	100.0	656	9	US-09-754-853A-5	Sequence 38, Appl
C 25	28	100.0	656	9	US-09-754-853A-5	Sequence 39, Appl
C 26	28	100.0	656	9	US-09-754-853A-5	Sequence 39, Appl
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C 34	28	100.0	656	9	US-09-754-853A-5	Sequence 39, Appl
C 35	28	100.0	656	9	US-09-754-853A-5	Sequence 39, Appl
C 36	28	100.0	656	9	US-09-754-853A-5	Sequence 39, Appl
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# ALIGNMENTS

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1 PRIOR APPLICATION NUMBER: US 09/632,366
2 PRIOR FILING DATE: 2000-08-03
3 P2/P3 APPLICATION NUMBER: GB 24263.6
4 PRIOR FILING DATE: 2000-10-04
5 P1/P4 APPLICATION NUMBER: US 69/236,359
6 PRIOR FILING DATE: 2000-09-27
7 PRIOR APPLICATION NUMBER: PCT/US01/000666
8 PRIOR FILING DATE: 2001-01-30
9 PRIOR APPLICATION NUMBER: PCT/US01/000667
10 PRIOR FILING DATE: 2001-01-30
11 PRIOR APPLICATION NUMBER: PCT/US01/000664
12 PRIOR FILING DATE: 2001-01-30
13 PRIOR APPLICATION NUMBER: PCT/US01/000669
14 PRIOR FILING DATE: 2001-01-30
15 PRIOR APPLICATION NUMBER: PCT/US01/000665
16 PRIOR FILING DATE: 2001-01-30
17 PRIOR APPLICATION NUMBER: PCT/US01/000668
18 PRIOR FILING DATE: 2001-01-30
19 PRIOR APPLICATION NUMBER: PCT/US01/000663
20 PRIOR FILING DATE: 2001-01-30
21 PRIOR APPLICATION NUMBER: PCT/US01/000662
22 PRIOR FILING DATE: 2001-01-30
23 PRIOR APPLICATION NUMBER: PCT/US01/000661
24 PRIOR FILING DATE: 2001-01-30
25 PRIOR APPLICATION NUMBER: PCT/US01/000670
26 PRIOR FILING DATE: 2001-01-30
27 PRIOR APPLICATION NUMBER: US 60/234,687
28 PRIOR FILING DATE: 2000-09-21
29 PRIOR APPLICATION NUMBER: US 09/608,408
30 PRIOR FILING DATE: 2000-06-30
31 PRIOR APPLICATION NUMBER: US 09/774,203
32 PRIOR FILING DATE: 2001-01-29
33 NUMBER OF SEQ IDS NOS: 49117
34 SOFTWARE: Anomax Sequence Listing Encoder
35 SEQ ID NO 32685
36 LENGTH: 133
37 TYPE: DNA
38 ORGANISM: Homo sapiens
39 FEATURE:
40 OTHER INFORMATION: MAP TO Acc007225.2
41 OTHER INFORMATION: EXPRESSED IN BONE MAR
42 OTHER INFORMATION: SWISSPROT HIT: Q9Y5N
43 OTHER INFORMATION: NT HIT: g17657426, F
44 OTHER INFORMATION: EST_HUMAN HIT: AU118
45 IS-09-864-761-32685

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; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.6
; OTHER INFORMATION: SWISSPROT HIT: Q9Y5N6, EVALU6 9.00e-17
; OTHER INFORMATION: EST_HIT: Q17657426, EVALU6 4.00e-59
; OTHER INFORMATION: EST_HUMAN_HIT: A0118020.1, EVALU6 6.00e-59
US-09-864-761-32685

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Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match:      100.00% Indels:      0
DB:              10      Gaps:      0

US-09-864-070-26 (1-5) x US-09-864-761-32685 (1-144)
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Dbb     59 CAGGATTATGAGAA 45
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RESULT 3
US-09-772-134b-90/c
; Sequence 90, Application US/09772134B
; Patent No. US20020144310A1
; GENERAL INFORMATION:
; APPLICANT: Southern Illinois University
; APPLICANT: Lightfoot, David
; APPLICANT: Meksem, Khalid
; TITLE OF INVENTION: ISOLATED POLYNUCLEOTIDES AND POLYPEPTIDES F
; TITLE OF INVENTION: RESISTANCE TO SOYBEAN CYST NEMATODE AND ISO
; TITLE OF INVENTION: METHODS EMPLOYING SAME
; FILE REFERENCE: 1268/4/2
; CURRENT APPLICATION NUMBER: US/09/772,134B

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? CURRENT FILING DATE: 2001-01-29  
 ? PRIOR APPLICATION NUMBER: 60/178,811  
 ? PRIOR FILING DATE: 2003-01-28  
 ? NUMBER OF SEQ ID NOS: 122  
 ? SOFTWARE: PatentIn version 3.0  
 ? SEQ ID NO 90  
 ? LENGTH: 160  
 ? TYPE: DNA  
 ? ORGANISM: soybean

? NAME/KEY: misc.feature  
 ? LOCATION: (1)-(160)  
 ? OTHER INFORMATION: n is an undetermined nucleotide (GAP, dGTP, dCTP, or dTTP)

US-09-772-1348-90

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 Query Match: 100.00% Indels: 0  
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US-09-856-070-26 (1-5) x US-09-772-1348-90 (1-160)

QY 1 GlnAspTyrGluGlu 5

DB 123 CAGGATTAAGACAA 134

RESULT 4

? Sequence 5932, Application US/09796692  
 ? Publication No. US2002014946A1  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Galger, Alexander  
 ? APPLICANT: Algate, Paul A.  
 ? APPLICANT: Mannion, Jane  
 ? TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DETECTION, DIAGNOSIS AND THERAPY  
 ? TITLE OF INVENTION: HEMATOLOGICAL MALIGNANCIES  
 ? FILE REFERENCE: 2077,001,200  
 ? CURRENT APPLICATION NUMBER: US/09/796,692

? PRIOR FILING DATE: 2001-03-01  
 ? PRIOR APPLICATION NUMBER: 60/186,126  
 ? PRIOR FILING DATE: 2000-03-01  
 ? PRIOR APPLICATION NUMBER: 60/190,479  
 ? PRIOR FILING DATE: 2000-03-17  
 ? PRIOR APPLICATION NUMBER: 60/200,545  
 ? PRIOR FILING DATE: 2000-04-27  
 ? PRIOR APPLICATION NUMBER: 60/200,303  
 ? PRIOR FILING DATE: 2000-04-28  
 ? PRIOR APPLICATION NUMBER: 60/200,779  
 ? PRIOR FILING DATE: 2000-04-28  
 ? PRIOR APPLICATION NUMBER: 60/200,699  
 ? PRIOR FILING DATE: 2000-05-01  
 ? PRIOR APPLICATION NUMBER: 60/202,084  
 ? PRIOR FILING DATE: 2000-05-04  
 ? PRIOR APPLICATION NUMBER: 60/206,201  
 ? PRIOR FILING DATE: 2000-05-22  
 ? PRIOR APPLICATION NUMBER: 60/218,950  
 ? PRIOR FILING DATE: 2000-07-14  
 ? PRIOR APPLICATION NUMBER: 60/222,903  
 ? PRIOR FILING DATE: 2000-08-03  
 ? PRIOR APPLICATION NUMBER: 60/223,416  
 ? PRIOR FILING DATE: 2000-08-04  
 ? PRIOR APPLICATION NUMBER: 60/223,378  
 ? PRIOR FILING DATE: 2000-08-07  
 ? NUMBER OF SEQ ID NOS: 9597  
 ? SOFTWARE: FastSeq for Windows Version 3.0  
 ? SEQ ID NO 5932  
 ? LENGTH: 162  
 ? TYPE: DNA  
 ? ORGANISM: Homo sapiens  
 ? FEATURE:

? NAME/KEY: unsure  
 ? LOCATION: (195)  
 ? OTHER INFORMATION: n-A,T,C or G  
 ? NAME/KEY: unsure  
 ? LOCATION: (117)  
 ? OTHER INFORMATION: n-A,T,C or G  
 ? NAME/KEY: unsure  
 ? LOCATION: (140)  
 ? OTHER INFORMATION: n-A,T,C or G  
 US-09-796-692-5932

Alignment Scores:  
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 Score: 28.00 Matches: 5  
 Percent Similarity: 100.00% Conservative: 0  
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 Query Match: 100.00% Indels: 0  
 DB: 9 Gaps: 0

US-09-856-070-26 (1-5) x US-09-796-692-5932 (1-162)

QY 1 GlnAspTyrGluGlu 5  
 DB 120 CAGGATTAAGACAA 134

RESULT 5

? Sequence 1174, Application US/090646897  
 ? Patent No. US20020165144A1  
 ? GENERAL INFORMATION:

? APPLICANT: Stefansson, Hreinn  
 ? APPLICANT: Steinhorsdottir, Valgerdur  
 ? APPLICANT: Gulcher, Jeffrey R.  
 ? TITLE OF INVENTION: HUMAN SCHIZOPHRENIA GENE  
 ? FILE REFERENCE: 2345,2004-001  
 ? CURRENT APPLICATION NUMBER: US/09/946,807  
 ? CURRENT FILING DATE: 2001-09-05  
 ? PRIOR APPLICATION NUMBER: US/99/4795,668  
 ? PRIOR FILING DATE: 2001-02-28  
 ? PRIOR APPLICATION NUMBER: US/09/515,716  
 ? PRIOR FILING DATE: 2000-03-28  
 ? NUMBER OF SEQ ID NOS: 1531  
 ? SOFTWARE: FastSeq for Windows Version 4.0  
 ? SEQ ID NO 1174  
 ? LENGTH: 401  
 ? TYPE: DNA  
 ? ORGANISM: Homo sapiens  
 US-09-946-807-1174

Alignment Scores:

Pred. No.: 61.5 Length: 401  
 Score: 28.00 Matches: 5  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 9 Gaps: 0

US-09-856-070-26 (1-5) x US-09-946-807-1174 (1-401)

QY 1 GlnAspTyrGluGlu 5

DB 379 CAGGATTAAGACAA 365

RESULT 6

? Sequence 1174, Application US/09795068  
 ? Patent No. US20020345577A1  
 ? GENERAL INFORMATION:

? APPLICANT: Stefansson, Hreinn  
 ? APPLICANT: Steinhorsdottir, Valgerdur  
 ? APPLICANT: Gulcher, Jeffrey R.  
 ? TITLE OF INVENTION: HUMAN SCHIZOPHRENIA GENE  
 ? FILE REFERENCE: 2345,2004-001

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: CURRENT APPLICATION NUMBER: US/09/795,668
: CURRENT FILING DATE: 2001-02-28
: PRIOR APPLICATION NUMBER: US 09/515,716
: PRIOR FILING DATE: 2000-02-28
: NUMBER OF SEQ ID NOS: 151
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 1174
: LENGTH: 401
: TYPE: DNA
: ORGANISM: Homo sapiens
US 09 795 668-1174

Alignment Scores:
Pred. No.: 61.5 Length: 401
Score: 28.00 Matches: 5
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 10 Gaps: 0

US-09-856-070-26 (1-5) x US-09-795-668-1174 (1-401)

QY 1 GlnAspTyrGluGlu 5
DB 479 CAGGATTATGAGGAA 365

RESULT 7
US 09 795 668-1174/c
: Sequence 1174, Application US/04795686
: Patent No. US20020094954A1
: GENERAL INFORMATION:
: APPLICANT: Stellan, Irene
: APPLICANT: Steinbock, Jeffrey R.
: TITLE OF INVENTION: HUMAN SCHIZOPHRENIA GENE
: FILE REFERENCE: 2345-2005-001
: CURRENT APPLICATION NUMBER: US/09/795,686
: CURRENT FILING DATE: 2001-02-28
: PRIOR APPLICATION NUMBER: US 09/515,715
: PRIOR FILING DATE: 2000-02-28
: NUMBER OF SEQ ID NOS: 151
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 1174
: LENGTH: 401
: TYPE: DNA
: ORGANISM: Homo sapiens
US-09-795-686-1174

Alignment Scores:
Pred. No.: 61.5 Length: 401
Score: 28.00 Matches: 5
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 10 Gaps: 0

US-09-856-070-26 (1-5) x US-09-795-686-1174 (1-401)

QY 1 GlnAspTyrGluGlu 5
DB 479 CAGGATTATGAGGAA 365

RESULT 8
US-09-867-701-781
: Sequence 781, Application US/04867701
: Patent No. US2002013237A1
: GENERAL INFORMATION:
: APPLICANT: Jones, Robert A.
: APPLICANT: Harlock, Susan L.
: TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
: AND DIAGNOSIS OF OVARIAN CANCER
: FILE REFERENCE: 210121.497

```

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: CURRENT APPLICATION NUMBER: US/09/867,701
: CURRENT FILING DATE: 2001-05-29
: NUMBER OF SEQ ID NOS: 10412
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 781
: LENGTH: 413
: TYPE: DNA
: ORGANISM: Homo sapien
: FEATURE:
: NAME/KEY: misc_feature
: LOCATION: (1)...(413)
: OTHER INFORMATION: n - A,T,C or G
US-09-867-701-781

Alignment Scores:
Pred. No.: 63.4 Length: 413
Score: 28.00 Matches: 5
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 10 Gaps: 0

US-09-856-070-26 (1-5) x US-09-867-701-781 (1-413)

QY 1 GlnAspTyrGluGlu 5
DB 36 CAGGACATGAGGAG 50

RESULT 9
US-09-880-107-3232
: Sequence 3232, Application US/09880107
: Patent No. US20020142981A1
: GENERAL INFORMATION:
: APPLICANT: Horne, Darci L.
: APPLICANT: Vockley, Joseph G.
: APPLICANT: Scherf, Owe
: TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
: FILE REFERENCE: 44921-5028-WO
: CURRENT APPLICATION NUMBER: US/09/880,107
: CURRENT FILING DATE: 2001-06-14
: PRIOR APPLICATION NUMBER: US 60/211,379
: PRIOR FILING DATE: 2000-06-14
: PRIOR APPLICATION NUMBER: US 60/237,054
: PRIOR FILING DATE: 2000-10-02
: NUMBER OF SEQ ID NOS: 3950
: SOFTWARE: Patent In Ver. 2.1
: SEQ ID NO 3232
: LENGTH: 441
: TYPE: DNA
: ORGANISM: Homo sapiens
: FEATURE:
: OTHER INFORMATION: GenBank Accession No. US20020142981A1 |B3347
: NAME/KEY: unsure
: LOCATION: (1)...(441)
: OTHER INFORMATION: n - a or c or q or t
US-09-880-107-3232

Alignment Scores:
Pred. No.: 67.9 Length: 441
Score: 28.00 Matches: 5
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 10 Gaps: 0

US-09-856-070-26 (1-5) x US-09-880-107-3232 (1-441)

QY 1 GlnAspTyrGluGlu 5
DB 98 CAGGACATGAGGAA 112

RESULT 10

```

US-09-864-761-5460/c  
 : Sequence 5460, Application 35/03864761  
 : Patent No. US20020048763A1  
 : GENERAL INFORMATION:  
 : APPLICANT: Penn, Sharon G.  
 : APPLICANT: Rank, David R.  
 : APPLICANT: Hanzel, David A.  
 : APPLICANT: Chen, Wensheng  
 : TITLE OF INVENTION: HUMAN FETOME-DERIVED SINGLE EXON NUCLEOTIC ACID PROBES USEFUL FOR  
 : FILE REFERENCE: Acomia-X-1  
 : CURRENT APPLICATION NUMBER: US 09/864,761  
 : PRIOR FILING DATE: 2001-05-23  
 : PRIOR APPLICATION NUMBER: US 60/180,312  
 : PRIOR FILING DATE: 2000-02-04  
 : PRIOR APPLICATION NUMBER: US 60/207,456  
 : PRIOR FILING DATE: 2000-05-26  
 : PRIOR APPLICATION NUMBER: US 09/632,306  
 : PRIOR FILING DATE: 2000-08-03  
 : PRIOR APPLICATION NUMBER: GH 24263.6  
 : PRIOR FILING DATE: 2000-10-04  
 : PRIOR APPLICATION NUMBER: US 60/236,359  
 : PRIOR FILING DATE: 2000-09-27  
 : PRIOR APPLICATION NUMBER: PCT/US01/00664  
 : PRIOR FILING DATE: 2001-01-30  
 : PRIOR APPLICATION NUMBER: PCT/US01/00667  
 : PRIOR FILING DATE: 2001-01-30  
 : PRIOR APPLICATION NUMBER: PCT/US01/00664  
 : PRIOR FILING DATE: 2001-01-30  
 : PRIOR APPLICATION NUMBER: PCT/US01/00669  
 : PRIOR FILING DATE: 2001-01-30  
 : PRIOR APPLICATION NUMBER: PCT/US01/00665  
 : PRIOR FILING DATE: 2001-01-30  
 : PRIOR APPLICATION NUMBER: PCT/US01/00668  
 : PRIOR FILING DATE: 2001-01-30  
 : PRIOR APPLICATION NUMBER: PCT/US01/00663  
 : PRIOR FILING DATE: 2001-01-30  
 : PRIOR APPLICATION NUMBER: PCT/US01/00662  
 : PRIOR FILING DATE: 2001-01-30  
 : PRIOR APPLICATION NUMBER: PCT/US01/00661  
 : PRIOR FILING DATE: 2001-01-30  
 : PRIOR APPLICATION NUMBER: PCT/US01/00670  
 : PRIOR FILING DATE: 2001-01-30  
 : PRIOR APPLICATION NUMBER: US 60/234,687  
 : PRIOR FILING DATE: 2000-04-21  
 : PRIOR APPLICATION NUMBER: US 09/608,408  
 : PRIOR FILING DATE: 2000-05-20  
 : PRIOR APPLICATION NUMBER: US 09/774,203  
 : PRIOR FILING DATE: 2001-01-29  
 : NUMBER OF SEQ ID NOS: 49117  
 : SOFTWARE: Attribex Sequence Listing Engine vers. 1.1  
 : SEQ ID NO 5460  
 : LENGTH: 470  
 : TYPE: DNA  
 : ORGANISM: Homo sapiens  
 : FEATURE:  
 : OTHER INFORMATION: MAP TO AC005737.1  
 : OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL - 1.3  
 : OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL - 1.4  
 : OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL - 1.3  
 : OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL - 0.99  
 : OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL - 3.2  
 : OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL - 1.2  
 : OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL - 15  
 : US-09-864 761-5460

Alignment Scores:  
 Prod. No.: 72.5 Length: 470  
 Score: 28.00 Matches: 5  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 10 Gaps: 0

US-09-856-070-26 (1-5) x US-09-856-761-5460 (1-470)  
 QY 1 GlnAspTyrGluGlu 5  
 DB 344 CAAGATTAAGAGAG 330  
 RESULT 11  
 US-09-856-070-662/c  
 : Sequence 662, Application us/09025299  
 : Patent No. US20020055627A1  
 : GENERAL INFORMATION:  
 : APPLICANT: Eschen et al.  
 : TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
 : FILE REFERENCE: P102  
 : CURRENT APPLICATION NUMBER: US/09/025,299  
 : CURRENT FILING DATE: 2001-08-10  
 : PRIOR APPLICATION NUMBER: PCT/US00/05883  
 : PRIOR FILING DATE: 2000-03-08  
 : PRIOR APPLICATION NUMBER: 60/124,270  
 : PRIOR FILING DATE: 1999-03-12  
 : NUMBER OF SEQ ID NOS: 1556  
 : SOFTWARE: PatentIn Ver. 2.0  
 : SEQ ID NO 662  
 : LENGTH: 506  
 : TYPE: DNA  
 : ORGANISM: Rattus sapiens  
 : FEATURE:  
 : NAME/KEY: misc\_feature  
 : LOCATION: (51)  
 : OTHER INFORMATION: n equals a,t,g, or c  
 : NAME/KEY: misc\_feature  
 : LOCATION: (69)  
 : OTHER INFORMATION: n equals a,t,g, or c  
 : NAME/KEY: misc\_feature  
 : LOCATION: (183)  
 : OTHER INFORMATION: n equals a,t,g, or c  
 : NAME/KEY: misc\_feature  
 : LOCATION: (191)  
 : OTHER INFORMATION: n equals a,t,g, or c  
 : NAME/KEY: misc\_feature  
 : LOCATION: (345)  
 : OTHER INFORMATION: n equals a,t,g, or c  
 : NAME/KEY: misc\_feature  
 : LOCATION: (363)  
 : OTHER INFORMATION: n equals a,t,g, or c  
 : NAME/KEY: misc\_feature  
 : LOCATION: (383)  
 : OTHER INFORMATION: n equals a,t,g, or c  
 : NAME/KEY: misc\_feature  
 : LOCATION: (432)  
 : OTHER INFORMATION: n equals a,t,g, or c  
 : NAME/KEY: misc\_feature  
 : LOCATION: (445)  
 : OTHER INFORMATION: n equals a,t,g, or c  
 : NAME/KEY: misc\_feature  
 : LOCATION: (466)  
 : OTHER INFORMATION: n equals a,t,g, or c  
 : NAME/KEY: misc\_feature  
 : LOCATION: (481)  
 : OTHER INFORMATION: n equals a,t,g, or c  
 : NAME/KEY: misc\_feature  
 : LOCATION: (487)  
 : OTHER INFORMATION: n equals a,t,g, or c  
 : US-09-856-279-662

Alignment Scores:  
 Prod. No.: 78.3 Length: 506  
 Score: 28.00 Matches: 5  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 10 Gaps: 0

US 09-856-070-26 (1-5) x US-09-925-299 662 (1-506)

QY 1 GlnAspTyrGluGlu 5  
DB 47 CAGAGTATGAGGAA 33

RESULT 12

US 09-864-761-16193/C  
Sequence 16193, Application US/09864761  
Patent No. US20020048763A1  
GENERAL INFORMATION:  
APPLICANT: Penn, Sharon G.  
APPLICANT: Bank, David R.  
APPLICANT: Hanzel, David K.  
APPLICANT: Chen, Wensheng  
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR  
FILE REFERENCE: Acomica-X-1  
CURRENT APPLICATION NUMBER: US 09/864,761  
CURRENT FILING DATE: 2001-05-23  
PRIOR APPLICATION NUMBER: US 60/180,312  
PRIOR FILING DATE: 2000-02-04  
PRIOR APPLICATION NUMBER: US 60/207,456  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: US 09/642,366  
PRIOR FILING DATE: 2000-08-04  
PRIOR APPLICATION NUMBER: GR 24263.6  
PRIOR FILING DATE: 2000-10-04  
PRIOR APPLICATION NUMBER: US 60/246,359  
PRIOR FILING DATE: 2000-09-27  
PRIOR APPLICATION NUMBER: PCT/US01/00666  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00667  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00664  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00665  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00668  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00663  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00662  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00661  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00670  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: US 60/234,687  
PRIOR FILING DATE: 2000-09-21  
PRIOR APPLICATION NUMBER: US 09/608,408  
PRIOR FILING DATE: 2000-06-30  
PRIOR APPLICATION NUMBER: US 09/774,203  
PRIOR FILING DATE: 2001-01-29  
NUMBER OF SEQ ID NOS: 49117  
SOFTWARE: Acomica Sequence Listing Engine vers. 1.1  
SEQ ID NO 16193  
LENGTH: 517  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
OTHER INFORMATION: MAP TO AC007225.2  
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.6

US 09-864-761-16193

Alignment Scores:  
Prod. No.: 80.1 Length: 517  
Score: 28.00 Matches: 5  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0

Query Match: 100.00% Indels: 0  
DB: 10 Gaps: 0

US 09-856-070-26 (1-5) x US-09-864-761-16193 (1-517)

QY 1 GlnAspTyrGluGlu 5  
DB 157 CAGGATTATGAGGAA 143

RESULT 13

US 09-864-761-15375  
Sequence 15375, Application US/09864761  
Patent No. US20020048763A1  
GENERAL INFORMATION:  
APPLICANT: Penn, Sharon G.  
APPLICANT: Bank, David R.  
APPLICANT: Hanzel, David K.  
APPLICANT: Chen, Wensheng  
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR  
FILE REFERENCE: Acomica-X-1  
CURRENT APPLICATION NUMBER: US 09/864,761  
CURRENT FILING DATE: 2001-05-23  
PRIOR APPLICATION NUMBER: US 60/180,312  
PRIOR FILING DATE: 2000-02-04  
PRIOR APPLICATION NUMBER: US 60/207,456  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: US 09/642,366  
PRIOR FILING DATE: 2000-08-04  
PRIOR APPLICATION NUMBER: GR 24263.6  
PRIOR FILING DATE: 2000-10-04  
PRIOR APPLICATION NUMBER: US 60/246,359  
PRIOR FILING DATE: 2000-09-27  
PRIOR APPLICATION NUMBER: PCT/US01/00666  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00667  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00664  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00669  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00665  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00668  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00663  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00662  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00661  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00670  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: US 60/234,687  
PRIOR FILING DATE: 2000-09-21  
PRIOR APPLICATION NUMBER: US 09/608,408  
PRIOR FILING DATE: 2000-06-30  
PRIOR APPLICATION NUMBER: US 09/774,203  
PRIOR FILING DATE: 2001-01-29  
NUMBER OF SEQ ID NOS: 49117  
SOFTWARE: Acomica Sequence Listing Engine vers. 1.1  
SEQ ID NO 15375  
LENGTH: 554  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
OTHER INFORMATION: MAP TO AL079300.11  
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.4  
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.6  
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.4

US-09-864-761-15375  
Alignment Scores:

Pred. No.: 86.1 Length: 554  
 Score: 28.00 Matches: 5  
 Percent Similarity: 100.00% Conservative: 0  
 Best local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 10 Gaps: 0

US-09-856-070-26 (1-5) x US-09 864-761 15375 (1-554)

QY 1 GlnAspTyrGluCln 5  
 Db 18 CAGAGCTATGAGAG 32  
 |||||

# RESULT 14

US-09-772-134B-42

: Sequence 42, Application US/09772134B

: Patent No. US20020144310A1

: GENERAL INFORMATION:

: APPLICANT: Southern Illinois university

: APPLICANT: Lightfoot, David

: APPLICANT: McKsem, Khalid

: TITLE OF INVENTION: ISOLATED POLYPEPTIDES AND POLYPEPTIDES RELATING TO LOCI UNDER

: TITLE OF INVENTION: RESISTANCE TO SOYBEAN CYST NEMATODE AND SOYBEAN SUDDEN DEATH SYN

: TITLE OF INVENTION: METHODS EMPLOYING SAME

: FILE REFERENCE: 1268/4/2

: CURRENT APPLICATION NUMBER: US/09/772.134B

: CURRENT FILING DATE: 2001-01-29

: PRIOR APPLICATION NUMBER: 60/178,811

: PRIOR FILING DATE: 2000-01-28

: NUMBER OF SEQ ID NOS: 122

: SOFTWARE: PatentIn version 3.0

: SEQ ID NO 42

: LENGTH: 605

: TYPE: DNA

: ORGANISM: soybean

: FEATURE:

: NAME/KEY: misc.feature

: LOCATION: (1)..(605)

: OTHER INFORMATION: n is an undetermined nucleotide (dATP, dCTP, dGTP, or dTTP)

US-09-772-134B-42

Alignment Scores:  
 Pred. No.: 94.3 Length: 605  
 Score: 28.00 Matches: 5  
 Percent Similarity: 100.00% Conservative: 0  
 Best local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 10 Gaps: 0

US-09-856-070-26 (1-5) x US-09-772-134B 42 (1-605)

QY 1 GlnAspTyrGluCln 5  
 Db 423 CAGAGCTATGAGAG 437  
 |||||

# RESULT 15

US-09-772-134B-79

: Sequence 79, Application US/09772134B

: Patent No. US20020144310A1

: GENERAL INFORMATION:

: APPLICANT: Southern Illinois University

: APPLICANT: Lightfoot, David

: APPLICANT: McKsem, Khalid

: TITLE OF INVENTION: ISOLATED POLYNUCLEOTIDES AND POLYPEPTIDES RELATING TO LOCI UNDER

: TITLE OF INVENTION: RESISTANCE TO SOYBEAN CYST NEMATODE AND SOYBEAN SUDDEN DEATH SYN

: TITLE OF INVENTION: METHODS EMPLOYING SAME

: FILE REFERENCE: 1268/4/2

: CURRENT APPLICATION NUMBER: US/09/772.134B

: CURRENT FILING DATE: 2001-01-29

: PRIOR APPLICATION NUMBER: 60/178,811

: PRIOR FILING DATE: 2000-01-28

: NUMBER OF SEQ ID NOS: 122

: SOFTWARE: PatentIn version 3.0

: SEQ ID NO 42

: LENGTH: 605

: TYPE: DNA

: ORGANISM: soybean

: FEATURE:

: NAME/KEY: misc.feature

: LOCATION: (1)..(605)

: OTHER INFORMATION: n is an undetermined nucleotide (dATP, dCTP, dGTP, or dTTP)

US-09-772-134B-79

: SEQ ID NO 79  
 : LENGTH: 605  
 : TYPE: DNA  
 : ORGANISM: soybean  
 : FEATURE:  
 : NAME/KEY: misc.feature  
 : LOCATION: (1)..(605)  
 : OTHER INFORMATION: n is an undetermined nucleotide (dATP, dCTP, dGTP, or dTTP)  
 US-09-772-134B-79

## Alignment Scores:

Pred. No.: 94.3 Length: 605  
 Score: 28.00 Matches: 5  
 Percent Similarity: 100.00% Conservative: 0  
 Best local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 10 Gaps: 0

US-09-856-070-26 (1-5) x US-09-772-134B-79 (1-605)

QY 1 GlnAspTyrGluCln 5

Db 423 CAGAGCTATGAGAG 437

|||||

Search completed: January 16, 2003, 21:46:16  
 Job time : 20.4286 secs

